

Version 1.0—July, 1998

**COMPARISON OF COMMERCIAL VEHICLE SAFETY ALLIANCE RECOMMENDED NATIONAL PROCEDURES
AND OUT-OF-SERVICE CRITERIA FOR THE ENHANCED SAFETY INSPECTION OF COMERCIAL HIGHWAY
VEHICLES TRANSPORTING TRANSURANICS, SPENT NUCLEAR FUEL, AND HIGH LEVEL WASTE TO RAIL
INSPECTION STANDARDS –TEC-WG, RAIL TOPIC GROUP**

Commercial Vehicle Safety Alliance Requirement	Applicable Federal Regulation (All 49CFR unless otherwise noted)	AAR Rule or Standard	Applicable Industry / Regulatory Initiatives / Recommended Practices
1.0 GENERAL	215-RAILROAD FREIGHT CAR SAFETY STANDARDS 221-REAR END MARKING DEVICE-PASSENGER, COMMUTER AND FREIGHT TRAINS 223-SAFETY GLAZING STANDARDS-LOCOMOTIVES, PASSENGER CARS AND CABOOSES 229-RAILROAD LOCOMOTIVE SAFETY STANDARDS 230-LOCOMOTIVE INSPECTION 231-RAILROAD SAFETY APPLIANCE STANDARDS 232-RAILROAD POWER BRAKES AND DRAWBARS	1. Section 7: Rules Governing the Loading of Commodities on Open Top Trailers and Containers to be Handled in Trailer-On-Flat-Car (TOFC) Service and Container-On-Flat-Car (COFC) Service (1994) 2. TOFC/COFC Interchange Rules Including Billing Repair Procedures (1997) 3. Field Manual of the Interchange Rules General Rule A, Rules 1 Care of Freight Cars Rule 3 Testing of Air Brakes Rule 89 Conditions Governing Delivery & Acceptance	1. FRA High Level Nuclear Waste Rail Transportation Inspection Policy 2. Safety Assurance Compliance Program (SACP)
2.0 PRELIMINARY ACTIVITIES	172.400 General labeling requirements 172.441 Radiation level limitations 172.500 Applicability of placarding Requirements 174.700 Special handling requirements for Class 7 (radioactive) materials.	None	3. FRA High Level Nuclear Waste Rail Transportation Inspection Policy 4. Safety Assurance & Compliance Program (SACP)
3.0 BEGINNING THE INSPECTION	See section 1 above	See section 1 above	See section 1 above
4.0 RADIATION SURVEY	See section 1 above	See section 1 above	See section 1 above
4.1 In-Cab Survey	See section 1 above	See section 1 above	See section 1 above
4.2 External Vehicle Survey	See section 1 above	See section 1 above	See section 1 above
5.0 DRIVER INSPECTION	219-CONTROL OF ALCOHOL AND	1. Field Manual of the Interchange	See section 1 above

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STANDARDS	<p>DRUG USE</p> <p>228-HOURS OF SERVICE OF RAILROAD EMPLOYEES</p> <p>229.21 Daily inspection.</p> <p>232.12 Initial terminal road train airbrake tests.</p> <p>240-QUALIFICATION AND CERTIFICATION OF LOCOMOTIVE ENGINEERS</p> <p>174.9 Inspection and acceptance.</p>	<p>Rules General Rule A, Rule 1 Care of Freight Cars</p>	
5.1 Driver's Age			See section 1 above
5.2 Commercial Driver License			<p>1. FRA High Level Nuclear Waste Rail Transportation Inspection Policy</p> <p>2. Individual railroad operating rules.</p>
5.3 Medical Examiner's Certificate			
5.4 Waiver of Physical Disqualification			
5.5 Certificate of Training			
5.6 Sickness or Fatigue			
5.7 Driver Disqualification			
5.8 Drugs and Other Substances			
5.9 Intoxicating Beverages			
5.10 Driver's Record of Duty Status			
5.11 Vehicle Inspection Report			
5.12 Personal Dosimetry			
6.0 SHIPPING PAPER AND ROUTE PLAN STANDARDS	<p>174.24 Shipping papers.</p> <p>174.26 Notice to train crews of placarded cars. (The National Environmental Policy Act (NEPA) may require EIS)</p>	Route agreed to by shipper and carrier	
6.1 Route Plan			
6.2 Shipping Papers			

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7.0 EXTERNAL HAZARDOUS MATERIAL IDENTIFICATION STANDARDS	172.300 Marking Applicability.172.400 General labeling requirements. Applicability of placarding requirements. 174.59 Marking and placarding of rail Cars.		
7.1 Placarding			
7.2 Labeling			1. FRA High Level Nuclear Waste Rail Transportation Inspection Policy
7.3 Package Marking			
8.0 IN-CAB PARTS AND ACCESSORIES INSPECTION STANDARDS			
8.1 Seat Belts	No seat belts in locomotives		
8.2 Horn	229.129 Audible warning device		
8.3 Windshield Glazing/Wipers	223-SAFETY GLAZING STANDARDS-LOCOMOTIVES, PASSENGER CARS AND CABOOSES 229.119 Cabs floors, and passageways.		
8.4 Wipers			
8.5 Rear Vision Mirrors	N/A		
8.6 Air Loss Rate	229.46 Brakes: General.229.47 Emergency brake value.229.49 Main reservoir system.229.51 Aluminum main reservoirs.229.53 Brake gauges.229.55 Piston travel. 229.57 Foundation brake gear. 229.59 Leakage.		
8.7 Low Pressure Warning Device	229.46 Brakes: General.229.47 Emergency brake value.229.49 Main reservoir system.229.51 Aluminum main		

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	reservoirs.229.53 Brake gauges.229.55 Piston travel. 229.57 Foundation brake gear. 229.59 Leakage.		
8.8 Steering Lash	N/A		
8.9 Floor, Firewall, and Internal Wiring	229.43 Exhaust and battery gases. 229.77 Current collectors.229.79 Third rail shoes.229.81 Emergency pole; shoe insulation.229.83 Insulation or grounding of metal parts.229.85 Doors and cover plates marked ``Danger".229.87 Hand-operated switches.229.89 Jumpers; cable connections. 229.91 Motors and generators. 229.119 Cabs, floors, and passageways		
8.10 Headlight Beam Indicator	229.125 Headlights and auxiliary lights.		
8.11 Sleeper Berth	N/A		
8.12 Emergency Equipment	229.47 Emergency brake value. 229.115 Slip/slide alarms.		
9.1 General	174.55 General requirements.174.63 Portable tanks, IM portable tanks, intermediate bulk containers, cargo tanks, and multi-unit tank car tanks. 215-RAILROAD FREIGHT CAR SAFETY STANDARDS 223-SAFETY GLAZING STANDARDS-LOCOMOTIVES, PASSENGER CARS AND CABOOSSES 229-RAILROAD LOCOMOTIVE SAFETY STANDARDS 231-RAILROAD SAFETY APPLIANCE STANDARDS 232-RAILROAD POWER BRAKES AND DRAWBARS	1. AAR Recommended Practice RP-506 Fuel Tank Integrity 2. TOFC/COFC Interchange Rules Including Billing Repair Procedures (1997) 3. Loading of Commodities on Open Top Trailers and Containers to be Handled in Trailer-On-Flat-Car (TOFC) Service and Container-On-Flat-Car (COFC) Service (1994) 1. AAR Specification M-952 Intermodal Container Support and Securement Systems for Freight Cars 2. AAR Manual of Standards and	

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Commercial Vehicle Safety Alliance Requirement	Applicable Federal Regulation (All 49CFR unless otherwise noted)	AAR Rule or Standard	Applicable Industry / Regulatory Initiatives / Recommended Practices
		Recommended Practice Section C to C-II Car Construction Fundamentals and Details. 3. AAR Specification M-931	
9.2 Front of Vehicle (Power Unit)	223-SAFETY GLAZING STANDARDS-LOCOMOTIVES, PASSENGER CARS AND CABOOSES 229-RAILROAD LOCOMOTIVE SAFETY STANDARDS		
9.3 Power Steering	N/A		
9.4 Hood Securement and Hinges	N/A		
9.5 Engine Compartment	229.91 Motors and generators.229.101 Engines.		
9.6 Steering Axle Suspension and Related Components	229.63 Lateral motion.229.64 Plain bearings.229.65 Spring rigging.229.67 Trucks. 229.69 Side bearings. 229.71 Clearance above top of rail. 229.73 Wheel sets. 229.75 Wheels and tire defects. 232.10 General rules; locomotives		AAR Standard S-580
9.7 Steering Axle Brake Components	229.46 Brakes: General.229.47 Emergency brake valve.229.49 Main reservoir system.229.51 Aluminum main reservoirs.229.53 Brake gauges.229.55 Piston travel.229.57 Foundation brake gear. 229.59 Leakage.		
9.8 Steering Axle Brake Adjustment	229.55 Piston travel.229.57 Foundation brake gear.229.59 Leakage. 232.10 General rules; locomotives		
9.9 Steering Axle Brake Drums	229.57 Foundation brake gear. 232.10 General rules; locomotives		

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Commercial Vehicle Safety Alliance Requirement	Applicable Federal Regulation (All 49CFR unless otherwise noted)	AAR Rule or Standard	Applicable Industry / Regulatory Initiatives / Recommended Practices
9.10 Steering Axle Brake Hose/Tubing	232.10 General rules; locomotives		
9.11 Frame and Frame Assemblies	229.141 Body structure, MU locomotives.	AAR Manual of Standards and Recommended Practice Section M - Locomotive and Locomotive Equipment AAR Standard S-580	
9.12 Lighting Devices	229.125 Headlights and auxiliary lights.229.127 Cab lights.		
9.13 Steering Axle Wheels, Rims, and Fasteners	229.63 Lateral motion.229.73 Wheel sets. 229.75 Wheels and tire defects.		
9.14 Tires on Steering Axle	N/A		
9.15 Fuel Tanks and Their Mounting	229.93 Safety cut-off device.229.95 Venting.229.97 Grounding fuel tanks.	AAR Recommended Practice RP-506	
9.16 Headerboard	229.141 Body structure, MU locomotives.	AAR Specification 952 AAR Standard S-580	
9.17 Battery	229.43 Exhaust and battery gases.		
9.18 Exhaust Systems	229.95 Venting.	AAR Recommended Practice RP-506	
9.19 Coupling Device	229.61 Draft system. 231-RAILROAD SAFETY APPLIANCE STANDARDS 332.2 Drawbars standard height.	AAR Manual of Standards and Recommended Practice Section B: Couplers & Freight Car Draft Gear Components.	
9.20 Fifth Wheel Mounting to Frame	N/A		
9.21 Mounting Plates and Pivot Brackets	N/A		
9.22 Sliders	N/A		
9.23 Lower Coupler	N/A		
9.24 Safety Devices	N/A		
9.25 Drive Axle Tires	229.63 Lateral motion.229.73 Wheel sets. 229.75 Wheels and tire defects.		
9.26 Drive Axle Wheels, Rims, and Fasteners	229.63 Lateral motion.229.73 Wheel sets. 229.75 Wheels and tire defects.		
9.27 Drive Axle Brake	229.63 Lateral motion.229.73 Wheel		

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Commercial Vehicle Safety Alliance Requirement	Applicable Federal Regulation (All 49CFR unless otherwise noted)	AAR Rule or Standard	Applicable Industry / Regulatory Initiatives / Recommended Practices
Components	sets. 229.75 Wheels and tire defects.		
9.28 Parking Brake	231-RAILROAD SAFETY APPLIANCE STANDARDS		
9.29 Drive Axle Brake Adjustment	229.55 Piston travel.		
9.30 Drive Axle Brake Drums	229.57 Foundation brake gear.		
9.31 Drive Axle Brake Hose/Tubing	229.57 Foundation brake gear.229.59 Leakage.		
9.32 Drive Axle(s) Suspension and Spring Assembly	229.63 Lateral motion.229.64 Plain bearings.229.65 Spring rigging. 229.67 Trucks. 229.69 Side bearings. 229.71 Clearance above top of rail. 229.73 Wheel sets. 229.75 Wheels and tire defects.		
9.33 Torque, Radius, or Tracking Components	229.63 Lateral motion.229.64 Plain bearings.229.65 Spring rigging. 229.67 Trucks. 229.69 Side bearings. 229.71 Clearance above top of rail. 229.73 Wheel sets. 229.75 Wheels and tire defects.		
10.0 EXTERNAL PARTS AND ACCESSORIES INSPECTION STANDARDS — TRAILER	174.55 General requirements.174.63 Portable tanks, IM portable tanks, intermediate bulk containers, cargo tanks, and multi-unit tank car tanks. 215-RAILROAD FREIGHT CAR SAFETY STANDARDS 231-RAILROAD SAFETY APPLIANCE STANDARDS (varies w/ car type) 232-RAILROAD POWER BRAKES AND DRAWBARS Note: Trailers in the trucking industry equate to freight cars in the rail industry. For this section,	<ol style="list-style-type: none"> 1 General Rules Governing the Loading of Commodities on Open Top Cars (1995) 2 TOFC/COFC Interchange Rules Including Billing Repair Procedures (1997) 3 Field Manual of the Interchange Rules Acceptance 4 Loading of Commodities on Open Top Trailers and Containers to be Handled in Trailer-On-Flat-Car 	

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	regulations, specifications, and requirements are limited to freight cars, and not truck trailers which can travel on freight cars. (see Section 9.0 general)	(TOFC) Service and Container-On-Flat-Car (COFC) Service (1994)	
10.1 Trailer Frame and Frame Assemblies	215.121 Defective car body.	AAR Manual of Standards and Recommended Practice Standard M-1001 Specifications for the Design Fabrication and Construction of Freight Cars, Volumes I & II. Field Manual of the Interchange Rules: Rule 57 – Center Sills Rule 58 – Side Sills	
10.2 Trailer Lighting Devices	221-REAR END MARKING DEVICE-PASSENGER, COMMUTER AND FREIGHT TRAINS 232.19 Design standards for end-of-train devices.	Interchange Rules: Section C, Appendix X	Intermodal Trailer and Container Securement Manual (1995)
10.3 Suspension Assembly and Other Axle Positioning Parts	215.103 Defective wheel.215.105 Defective axle. 215.115 Defective roller bearing. 215.117 Defective roller bearing adapter. 215.119 Defective freight car truck.	AAR Manual of Standards and Recommended Practice Sections: C-II Construction Fundamentals & details Appendices. G – Wheels & Axles G-II – Wheel & Axle Shop Manual H – Journal Bearings & Lubrication H-II – Roller Bearing (Shop) Manual H-III – Lubrication Shop Manual	AAAR Intermodal Trailer and Container Loading Pamphlets

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Commercial Vehicle Safety Alliance Requirement	Applicable Federal Regulation (All 49CFR unless otherwise noted)	AAR Rule or Standard	Applicable Industry / Regulatory Initiatives / Recommended Practices
		Field Manual of the Interchange Rules: 36 – Roller Bearings 37 – Roller Bearing Adapters 41 – Wheels 43 – Axles 47 – Truck bolsters 48 – Truck Side Frames 50 – Truck Springs 60 – Body Center Plates 61 – Body Side Bearing	
10.4 Sliding Axle Positioning Component	215.105 Defective axle.	AAR Manual of Standards and Recommended Practice Sections: G – Wheels & Axles G-II – Wheel & Axle Shop Manual Field Manual of the Interchange Rules: 43 – Axles	
10.5 Fifth Wheel Kingpin	N/A (see Section 10.0)	AAR Intermodal Trailer & Container Securement Manual	
10.6 Trailer Axle Wheels, Rims, and Fasteners	215.103 Defective wheel. 215.105 Defective axle. 215.115 Defective roller bearing. 215.117 Defective roller bearing adapter.	AAR Manual of Standards and Recommended Practice Sections: G – Wheels & Axles G-II – Wheel & Axle Shop Manual H – Journal Bearings & Lubrication H-II – Roller Bearing (Shop) Manual H-III – Lubrication Shop Manual Field Manual of the Interchange Rules: 36 – Roller Bearings 37 – Roller Bearing Adapters 41 – Wheels 43 – Axles	
10.7 Trailer Tires	215.103 Defective wheel.	AAR Manual of Standards and Recommended Practice Sections: G – Wheels & Axles G-II – Wheel & Axle Shop Manual	

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		Field Manual of the Interchange Rules: 41 – Wheels	
10.8 Trailer Axle Brake Components	PART 232-RAILROAD POWER BRAKES AND DRAWBARS	AAR Manual of Standards and Recommended Practice Sections: E – Brakes and Brake Equipment E-II – Maintenance Requirements for Freight Car Air Brake Control Vales and Equipment – Shop Field Manual of the Interchange Rules: 3 – Testing of Air Brakes 4 – Air Brakes and Parts 5 – Air Brake Hoses and Hose Supports 6 – Brake Beams 7 – Brake Beam Hangers 8 – Brake Beam Hanger Brackets and Bracket Wear Plates 9 – Brake Connection Pins, Hangers Pins, or Bolts 10 – Brake Beam and Button Rod Supports 11 – Brake Levers, Guides And Brake Connection Rods 12 – Brake Shoes and Shoe Keys	
10.9 Trailer Brake Drums	232.11 Train air brake system tests. 232.12 Initial terminal road train airbrake tests.	AAR Manual of Standards and Recommended Practice Sections: E – Brakes and Brake Equipment Field Manual of the Interchange Rules: 12 – Brake Shoes and Shoe Keys	
10.10 Trailer Brake Hose/Tubing	232.11 Train air brake system tests. 232.12 Initial terminal road train airbrake tests.	AAR Manual of Standards and Recommended Practice Sections: E – Brakes and Brake Equipment Field Manual of the Interchange Rules: 3 – Testing of Air Brakes 4 – Air Brakes and Parts	

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		5 – Air Brake Hoses and Hose Supports	
10.11 Brake Adjustment	232.12 Initial terminal road train airbrake tests	AAR Manual of Standards and Recommended Practice Sections: E – Brakes and Brake Equipment Field Manual of the Interchange Rules: 3 – Testing of Air Brakes	
10.12 Rear-End Protection	215.121 Defective car body.	AAR Manual of Standards and Recommended Practice Specification M-1001 -Specifications for the Design Fabrication and Construction of Freight Cars, Volumes I &II.	
10.13 Spare Tire Securement	N/A		
10.14 Load Securement	174 Subpart C-General Handling and Loading Requirements: 174.55 General requirements. 174.63 Portable tanks, IM portable tanks, intermediate bulk containers, cargo tanks, and multi-unit tank car tanks. 215.13 Pre-departure inspection.	1. Pamphlet 6 & 6C 2. Loading of Commodities on Open Top Trailers and Containers to be Handled in Trailer-On-Flat-Car (TOFC) Service and Container-On-Flat-Car (COFC) Service (1994) 3. Field Manual of the Interchange Rule 89 – Mechanical Requirements for Acceptance	
10.15 Trupact-II Package Tie Down Assemblies	N/A		
11.0 COMPLETING THE INSPECTION	Regulatory Agency Policies & Procedures	Industry Policies and Procedures	Intermodal Trailer and Container Securement Manual (1995)
Other inspection regulations and specifications which apply. Railroads maintain their own right of way, which differs from highway.	PART 213-TRACK SAFETY STANDARDS 220-RADIO STANDARDS AND PROCEDURES 233-SIGNAL SYSTEMS REPORTING REQUIREMENTS 234--GRADE CROSSING SIGNAL SYSTEM SAFETY	Multiple	

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	236-RULES, STANDARDS, AND INSTRUCTIONS GOVERNING THE INSTALLATION, INSPECTION, MAINTENANCE, AND REPAIR OF SIGNAL AND TRAIN CONTROL SYSTEMS, DEVICES, AND APPLIANCES		